Yes, you can™.

Invacare® **RPS 440ee**

Instruction Manual

Version 07/08

DEALER: This manual MUST be given to the user of the patient lift.
USER: BEFORE using this patient lift, read this manual and save for future reference.
SERVICE AGENT: Only Invacare authorised service agents are permitted to install, service or repair Invacare product.

Safety Precautions

Please read and understand the following before using a Invacare patient lifter:

DO NOT OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING THE WARNINGS, CAUTIONS AND INSTRUCTIONS IN THIS MANUAL AND THE OWNER'S MANUAL PROVIDED WITH THE SLINGS. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS, AND INSTRUCTIONS, CONTACT A HEALTHCARE PROFESSIONAL, DEALER OR TECHNICAL PERSONNEL IF APPLICABLE BEFORE ATTEMPTING TO USE THIS EQUIPMENT - OTHERWISE INJURY OR DAMAGE MAY RESULT.

THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

RADIO FREQUENCY INTERFERENCE

Most electronic equipment is influenced by Radio Frequency Interference (RFI). CAUTION should be exercised with regard to the use of portable communication equipment in the area around such equipment. If RFI causes erratic behaviour, PUSH the Red Emergency Stop Button IMMEDIATELY. DO NOT turn the Red Emergency Stop Button OFF while transmission is in progress.
This product meets EN60601-1-2 Collateral Standard: Electromagnetic Compatibility.

MAINTENANCE

Maintenance MUST be performed ONLY by qualified personnel.

WARNING notices as used in this manual apply to hazards or unsafe practices which could result in serious bodily harm.

CAUTION notices as used in this manual apply to hazards or unsafe practices which could result in minor personal injury or property damage.

NOTES highlight procedures and contain information which assist the operator in understanding the information contained in this manual.

SAVE THESE INSTRUCTIONS AND KEEP WITH PATIENT LIFT AT ALL TIMES.

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Special Notes

ALWAYS be aware of the Lift Arms. Injury to the patient and/or assistant may occur.

ALWAYS be aware of the Footrest, especially the patient's position on the footrest. Injury to the patient and/or assistant may occur.

Device contains Lead Acid Gel Cell batteries. DO NOT dispose of batteries in normal household waste. They MUST be taken to a proper disposal site. Contact your local waste management company for information.

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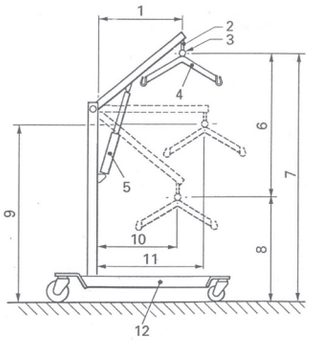
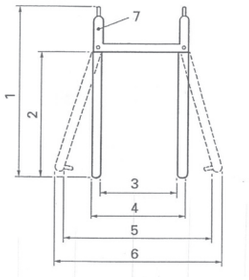
Specifications

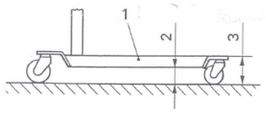
Model	RPS440
Product Code	LPS-RPS440-AUS
Capacity	200 kg (440 lb)
Leg Spread Adjustment	Electric
Configuration	



Hoisting Range/Reach



Base



Base height/clearance

Hoisting Range/Reach

1. Hoisting reach at max. height of C.S.P 300
2. Flexible device
3. C.S.P (Central Suspension Point)
4. Spreader bar
5. Lifting machinery
6. Hoisting range 630
7. Max height of C.S.P 1700
8. Min height of C.S.P 1070
9. Height of C.S.P at max. height hoisting reach ..... NA
10. Hoisting reach at min. height of C.S.P ..... NA
11. Max hoisting reach ..... NA
12. Base

Base (Radial type)

1. Max external length 1140
2. Max internal length 820
3. Min internal width 575
4. Min external width 675
5. Max internal width 1180
6. Max external width 1270
7. Base

Base height/clearance

1. Base
2. Min clearance 70
3. Max height 120

Frame Material	Epoxy Coated Steel
Castors	Single Wheel
Size	100mm (4")
Brakes	Yes - Rear
Product Weight	52 kg (115 lb)
Battery	24VDC
Charger Input	100 - 240 VAC
Charger Output/Charging Time	29.5 VDC - Max. 6 hours
Approx. Lifts per Charge*	100 - 200 cycles

Safety Devices	
Motor Anti-Entrapment	Yes
Emergence Stop	Yes
Emergence Lowering	Yes

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Safety Summary

NOTE: Check all parts for shipping damage before using. In case of damage, DO NOT use the equipment. Contact the Carrier/Dealer for further instructions.

NOTE: The stand up lift may be operated by one (1) healthcare professional for ALL lifting preparation, transferring from and transferring to procedures with a cooperative, weight-bearing individual able to support the majority of his/her own weight. However, since medical conditions vary, Invacare recommends that the healthcare professional evaluate the need for assistance and determine whether more than one (1) assistant is appropriate in each case to safely perform the transfer.

DO NOT attempt any transfer without approval of the patient's physician, nurse or medical assistant. Thoroughly read the instructions in this Owner's Manual, observe a trained team of experts perform the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a patient.

Individuals that use the Standing Sling MUST be able to support the majority of their own weight, otherwise injury can occur.

DO NOT raise the patient to a full standing position while using the transport sling otherwise injury can occur.

Invacare standing and transport slings are specifically designed to be used in conjunction with the Invacare Stand Up Lift. Slings and accessories designed by other manufacturers or other Invacare slings are not to be utilized as a component of Invacare's stand up lift system. Use of these products is prohibited and will void Invacare's stand up lift warranty. Use only genuine Invacare standing and transport slings and lift accessories to maintain patient safety and product utility. Use the sling that is recommended by the individual's doctor, nurse or medical assistant for the comfort and safety of the individual being lifted.

Before positioning the legs of the stand up lift around the patient, make sure the patient's feet are out of the way of the footplate, otherwise injury can occur.

Invacare recommends locking the rear swivel casters ONLY when positioning or removing the sling (standing or transport) from around the patient.

Invacare does NOT recommend locking the rear swivel casters of the stand up lift when lifting and transferring an individual. Doing so could cause the lift to tip and endanger the patient and assistants. Invacare DOES recommend that the rear swivel casters be left UNLOCKED during lifting and transferring procedures to allow the stand up lift to stabilize itself when the patient is initially lifted from and transferred to a chair, bed or any stationary object.

STANDING SLINGS - DO NOT use the standing sling in combination with the stand up lift as a transport device. It is intended to transfer an individual from one resting surface to another (such as a bed to a wheelchair). Moving a person using the standing sling in combination with the stand up lift over ANY distance is NOT recommended.

STANDING SLINGS - Before lifting the patient, make sure the bottom edge of the standing sling is positioned on the lower back of the patient and the patient's arms are outside the standing sling.

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Safety Summary *(continued)*

STANDING SLINGS - The belt MUST be snug, but comfortable on the patient, otherwise the patient can slide out of the sling during transfer, possibly causing injury.

TRANSPORT SLINGS - Before lifting the patient, make sure the bottom edge of the transport sling is at the base of the spine and the patient's arms are outside the transport sling.

DO NOT use any kind of material (such as a plastic back incontinence pad or seating cushion) between the patient and sling material that may cause the patient to slide out of the sling during transferring.

ALWAYS use the colour coded strap on the standing sling closest to the patient while still maintaining patient stability and comfort. Bleached, torn, cut, frayed, or broken slings are unsafe and could result in injury. Discard Immediately.

DO NOT alter slings.

When elevated a few inches off the surface being transferred from and before moving the patient, check again to make sure that the sling is properly connected to the attachment points of the stand up lift. If any attachments are NOT properly in place, lower the patient back onto the surface and correct this problem.

During transfer, with patient suspended in a sling attached to the lift, DO NOT roll stand up lift over objects such as carpet, raised carpet bindings, door frames, or any uneven surfaces or obstacles that would create an imbalance of the stand up lift and could cause the stand up lift to tip over.

Use push handle on the mast at ALL times to push or pull the stand up lift.

Casters and axle bolts require inspection every six (6) months to check for tightness and wear.

After the first 12 months of operation, inspect all pivot points and fasteners for wear. If the metal is worn, the parts MUST be replaced. Make this inspection every six (6) months thereafter.

The electric motor is sealed at the factory and if service is required, the motor unit MUST BE returned to the factory for repair. DO NOT attempt to open the motor or obtain local service as this will VOID the warranty and may result in damage and a costly repair. Consult your Dealer or Invacare for further information.

Regular maintenance of Stand Up Lift and accessories is necessary to assure proper operation.

WEIGHT LIMITATION
DO NOT exceed maximum weight limitation of the Stand Up Lift. The maximum weight limitation is 440 lbs. regardless of any additional weight limitations on accessories.

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Key to Symbols

The following symbols are used on lifter and attachment labels:

CE — The symbol required to be displayed on regulated products for sale on the European Market. It indicates that the product complies with applicable European Directives related to health, safety, environment and consumer protection.

SWL — Safe Working Load. Represents the maximum load the lifter is rated at for safe operation.

The following symbols are used on sling labels and relate to washing instructions:

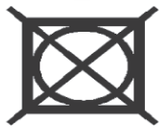
Wash at maximum temperature 60°C (140°F) permanent press cycle.

Wash at maximum temperature 85°C (198°F) permanent press cycle.

Do not use bleach.

Do not dry clean.

Dry cleanable.



Do not tumble dry.

Do not iron.

Please refer to individual sling labels for complete instructions regarding washing and laundering.

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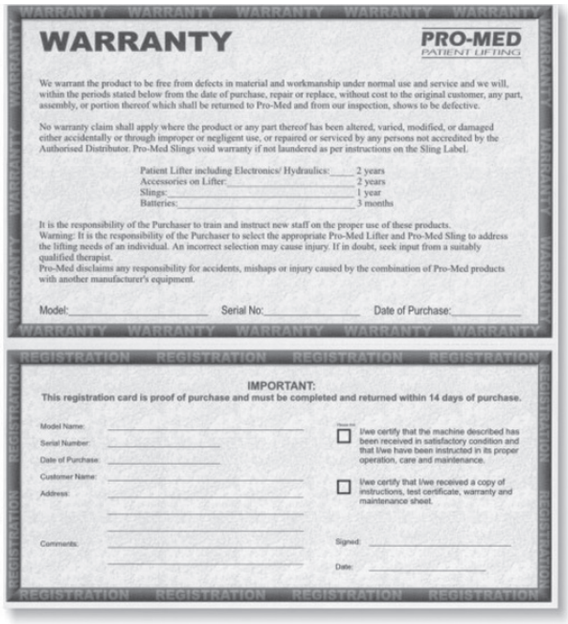
Documentation

With each lifter you should receive the following documents:

- this Instruction Manual;
- a Test Certificate; and
- a Warranty / Registration Card.



WARRANTY

PRO-MED PATIENT LIFTING

We warrant the product to be free from defects in material and workmanship under normal use and service and we will, within the periods stated below from the date of purchase, repair or replace, without cost to the original customer, any part, assembly, or portion thereof which shall be returned to Pro-Med and from our inspection, shows to be defective.

No warranty claim shall apply where the product or any part thereof has been altered, varied, modified, or damaged either accidentally or through improper or negligent use, or repaired or serviced by any persons not accredited by the Authorised Distributor. Pro-Med Slings void warranty if not laundered as per instructions on the Sling Label.

Patient Lifter including Electronics/ Hydraulics: 2 years
Accessories on Lifter: 2 years
Slings: 1 year
Batteries: 3 months

It is the responsibility of the Purchaser to train and instruct new staff on the proper use of these products.
Warning: It is the responsibility of the Purchaser to select the appropriate Pro-Med Lifter and Pro-Med Sling to address the lifting needs of an individual. An incorrect selection may cause injury. If in doubt, seek input from a suitably qualified therapist.
Pro-Med disclaims any responsibility for accidents, mishaps or injury caused by the combination of Pro-Med products with another manufacturer's equipment.

Model: Serial No: Date of Purchase:

REGISTRATION

IMPORTANT:
This registration card is proof of purchase and must be completed and returned within 14 days of purchase.

Model Name:
Serial Number:
Date of Purchase:
Customer Name:
Address:
Comments:

I/we certify that the machine described has been received in satisfactory condition and that I/we have been instructed in its proper operation, care and maintenance.

I/we certify that I/we received a copy of instructions, test certificate, warranty and maintenance sheet.

Signed:
Date:

Warranty/Registration Card
The tear-off Registration Card must be completed and returned to Invacare within fourteen days of purchase.

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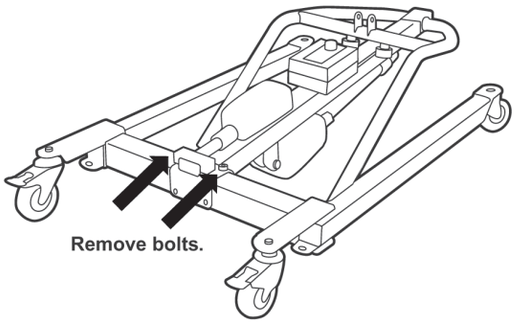
Assembly

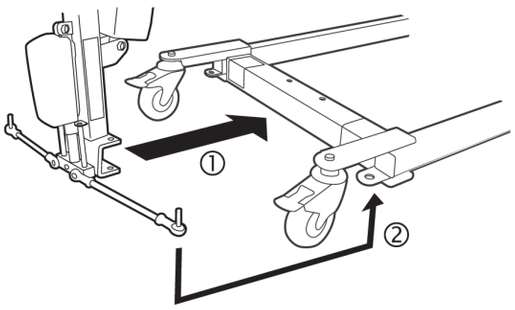
The RPS400ee is packed partly assembled for shipping purposes. To assemble your RPS400ee, remove all contents from box and place unit on workbench or table. Using 16 mm and 17 mm spanners remove the two bolts connecting the mast to the chassis.



Remove mast and boom assembly from base (1). Position upright and attach mast to base using the previously removed bolts.

Note: Ensure these bolts are firmly tightened.

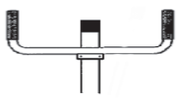
Attach the rod ends as shown in (2).

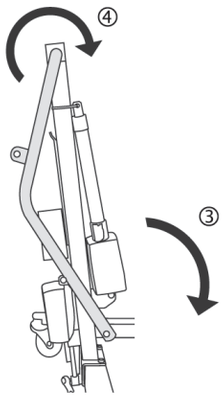


When assembling the patient lift, it is important to tighten bolts according to instruction. Failure to do so may result in damage to the lift or injury to the care-giver or client.

Cut cable tie securing actuator (3), and swing actuator forward so that it is out of the way.

Swing boom up and over to the front (4) .

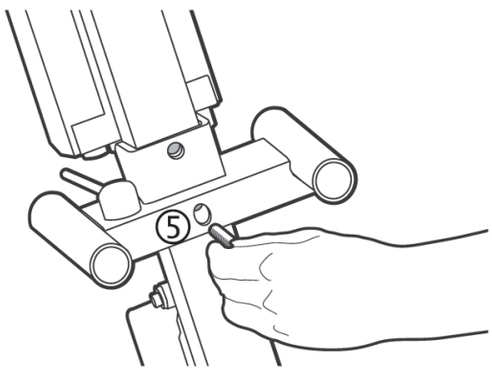




Attaching the kneepad receiver

Note: The kneepad is an integral part of the lift and must be attached so that the lifter can function correctly and safely.

Remove the two hex screws on front of mast behind the actuator. Align the kneepad receiver assembly over the screw holes (5). Ensure the assembly is correctly orientated - the kneepad release lever should be on top. Replace the screws. Tighten firmly.



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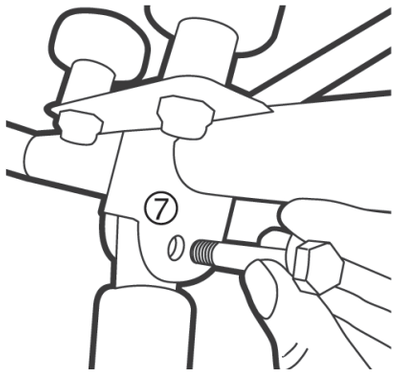
Assembly *(continued)*

Using 16mm and 17mm spanners, connect top of actuator to boom using bolt provided (7).

Note: Do not over-tightening this bolt as this will deform the clevis and restrict the pivot.

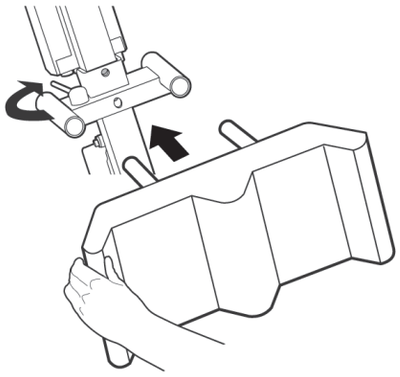


The kneepad is fundamental to the safe standing of patients by this lift. With the exception of using this lift as a gait-trainer, the kneepad must be fitted to the lift.

Attaching the kneepad

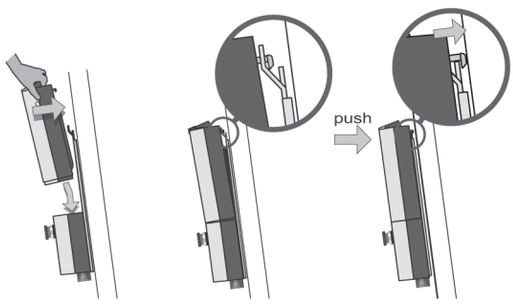
Attach the kneepad to the kneepad receiver by sliding the two posts into the tube retainers of the kneepad receiver assembly and at the same time turning the kneepad release lever in a clockwise direction.

Release the lever and slide the kneepad in or out until the mechanism engages and locks the kneepad.



Attaching the battery

Fit battery to control box. For more information about this procedure refer to page 12 of this manual.



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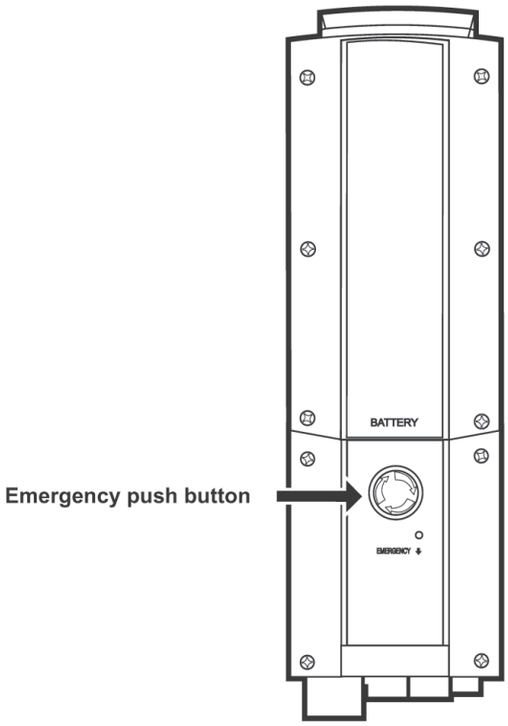
Ensure control box emergency push button is set to the off position (out). If not, twist the button one quarter of a turn clockwise and the button will pop out.



To mount battery charger on wall, refer to page 11: **Mounting Battery Charger** in this manual.

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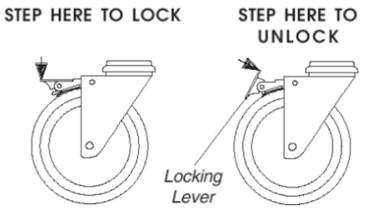
Operating the Stand Up Lift

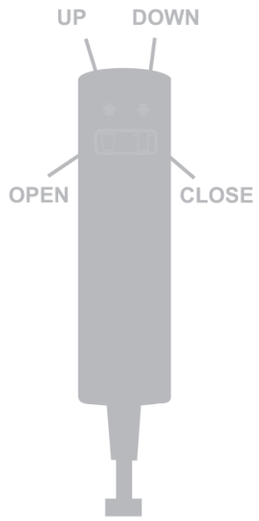
Locking/Unlocking the Rear Swivel Casters



Perform one (1) of the following:

LOCKING - Press DOWN on the BOTTOM of the locking lever.
UNLOCKING - Press DOWN on the TOP of the locking lever.

Raising/Lowering Stand Up Lift

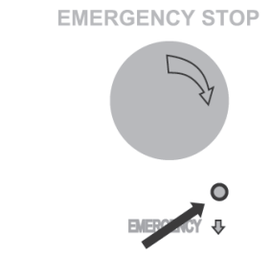


RAISING THE LIFT Press the UP button on the hand control to raise the lift arms and the patient.

LOWERING THE LIFT Press the DOWN button on the hand control to lower the lift arms and the patient.

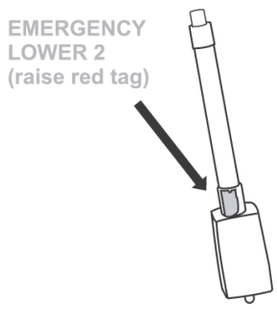
NOTE: If the Stand Up Lift is in the full UP position, it may be necessary to pull down slightly on the lift arms before the mast will lower.

EMERGENCY STOP. Press the RED button on the control box IN to stop the lift arms and patient from raising or lowering. (Refer to page 9).



NOTE: Rotate RED emergency stop button CLOCKWISE until it pops out to disengage.

EMERGENCY LOWERING. In the event of a handset or control box failure, the lifter can still be lowered by the following methods: 1/ By pressing the tip of a ballpoint pen into the small circle below and to the right of the stop button on the control box. 2/ By pulling up the red tag on the actuator column (actuator must be loaded).



Closing/Opening the Leg Base

The bottom row of the handset is used to open or close the legs of the base for stability prior to lifting a patient. Pressing the left button widens the leg base; the right button closes the leg base.

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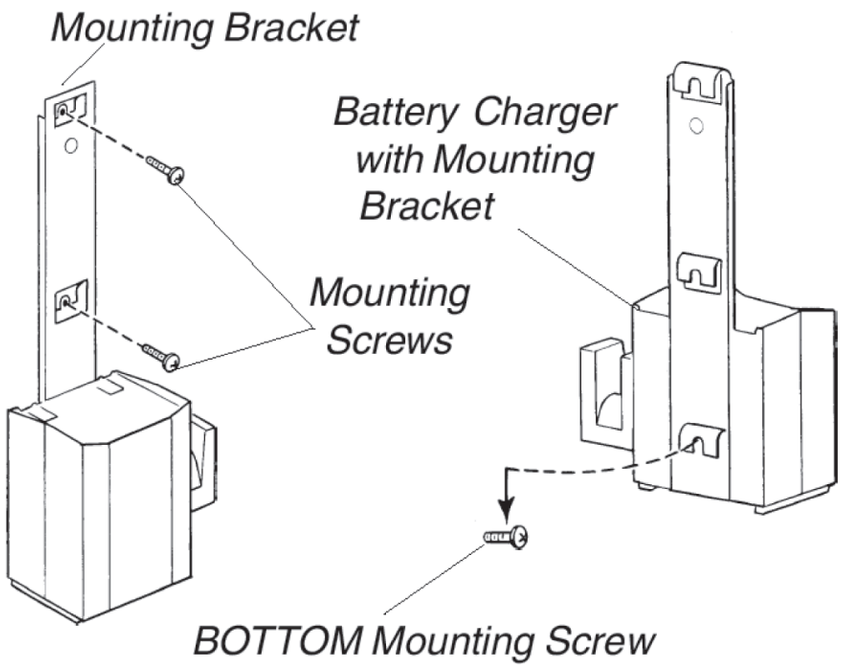
Mounting Battery Charger

NOTE: Refer to your local regulations concerning proper mounting procedures.

1. Place the battery charger with mounting bracket on the wall at the desired position.
2. With a pencil, mark the MIDDLE hole position.
3. Measure down 6-1/2-inches from the pencil mark and drill one (1) mounting hole.
4. Install the BOTTOM mounting screw until there is an approximate1/8inch gap between the screw head and the wall.
5. Install the battery charger with mounting bracket onto the bottom mounting screw.
6. Drill the remaining two (2) mounting holes.
7. Install the two (2) remaining mounting screws through the mounting bracket and into the wall. Tighten securely.
8. Plug the battery charger into the wall electrical outlet.
   NOTE: ON LED should illuminate.



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Charging the Batteries

NOTE: Invacare recommends the battery be recharged daily to prolong battery life.
NOTE: An audible alarm will sound (beep) when battery is low.

1. Lift UP on the handle on the back of the battery.

2. Lift the battery UP and OUT away from the control box.

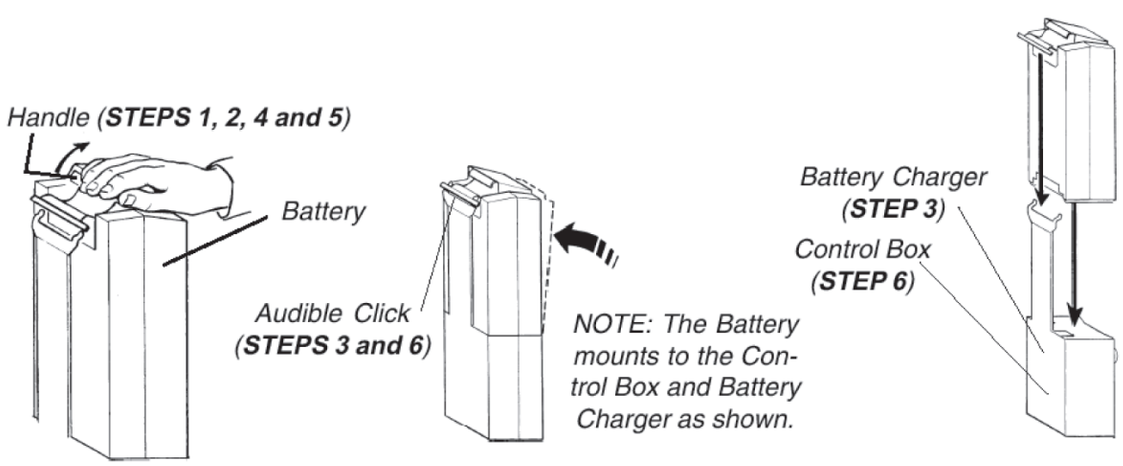
Make sure there is an audible click when mounting battery either on the battery charger or control box to confirm proper mounting. Otherwise, injury or damage may occur. Refer to diagram below for correct instructions.

3. Place the battery on the battery charger as shown in the following diagram. Make sure there is an audible click.
   NOTE: The charge LED will illuminate. When charging is complete, charge LED will stop illuminating.
   NOTE: A battery needing to be fully recharged will take approximately four (4) hours.

4. Lift UP on the handle on the back of the battery.

5. Lift the battery UP and OUT away from the battery charger.

6. Reinstall the battery onto the control box as shown. Make sure there is an audible click.



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Transferring From

Lifting Preparation

NOTE: The stand up lift may be operated by one (1) healthcare professional for ALL lifting preparation, transferring from and transferring to procedures with a cooperative, weight-bearing individual able to support the majority of his/her own weight. However, since medical conditions vary, Invacare recommends that the healthcare professional evaluate the need for assistance and deter-mine whether more than one (1) assistant is appropriate in each case to safely perform the transfer.

STANDING SLINGS - Before lifting the patient, make sure the bottom edge of the standing sling is positioned on the lower back of the patient and the patient's arms are outside the standing sling.

TRANSPORT SLINGS - Before lifting the patient, make sure the bottom edge of the transport sling is at the base of the spine and the patient's arms are outside the transport sling.

Invacare does NOT recommend locking the rear casters of the stand up lift when lifting and transferring an individual. Doing so could cause the lift to tip and endanger the patient and assistants.

Invacare DOES recommend that the rear casters be left UNLOCKED during lifting and transferring procedures to allow the stand up lift to stabilize itself when the patient is initially lifted from and transferred to a chair, bed or any stationary object.

Lifting the Patient

1. Instruct the patient to do the following:
   A. Hold onto the hand grips on both sides of the stand up lift.
   B. Lean back into the standing or transport sling.

2. Make sure of the following:
   A. Patient's knees are secure against the knee pad.
   B. Patient's feet are positioned on the footplate.
   C. The bottom edge of the Standing Sling is positioned on the lower back. Transport Sling is at the base of the patient's spine.
   D. The patient's arms are outside of the standing or transport sling.
   E. The rear casters are unlocked.
   F. Make sure the legs are in the maximum open position.

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When elevated slightly off the surface being transferred from and before moving the patient, check again to make sure that the sling is properly connected to the attachment points of the stand up lift. If any attachments are NOT properly in place, lower the patient back onto the surface and correct this problem.

Adjustments for safety and comfort should be made before moving the patient.

Invacare standing and transport slings are specifically designed to be used in conjunction with the Invacare Stand Up Lift. Slings and accessories designed by other manufacturers or other Invacare slings are not to be utilized as a component of Invacare's stand up lift system. Use of these products is prohibited and will void Invacare's stand up lift warranty. Use only genuine Invacare standing and transport slings and lift accessories to maintain patient safety and product utility.

If transferring from a wheelchair: Wheelchair wheel locks MUST be in the locked position BEFORE lowering the patient into the wheelchair.

3. Transferring from a wheelchair - Lock the wheel locks of the wheelchair.

4. Press the UP button to raise the patient above the surface (bed, wheelchair or commode) being transferred from. The patient should be elevated just high enough to clear the surface with their weight fully supported by the lift.

NOTE: The lower center of gravity provides stability making the patient feel more secure and the lift easier to move.

Moving the Patient

STANDING SLINGS - DO NOT use the standing sling in combination with the stand up lift as a transport device. It is intended to transfer an individual from one resting surface to another (such as a bed to a wheelchair). Moving a person using the standing sling in combination with the stand up lift over ANY distance is NOT recommended.

During transfer, with patient suspended in a sling attached to the lift, DO NOT roll stand up lift over objects such as carpet, raised carpet bindings, door frames, or any uneven surfaces or obstacles that would create an imbalance of the stand up lift and could cause the stand up lift to tip over. Use push handle on the mast at ALL times to push or pull the stand up lift.

1. Using the push handle, move the stand up lift away from the surface.

2. SLOWLY, move the patient to the desired surface.

3. Lower the patient onto the desired surface. Refer to TRANSFERRING TO in this manual.

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Transferring To

NOTE: The stand up lift may be operated by one (1) healthcare professional for ALL lifting preparation, transferring from and transferring to procedures with a cooperative, weight-bearing individual able to support the majority of his/her own weight. However, since medical conditions vary, Invacare recommends that the healthcare professional evaluate the need for assistance and determine whether more than one (1) assistant is appropriate in each case to safely perform the transfer.

Transferring the Patient to a Wheelchair

1. Move the wheelchair into position.

Wheelchair wheel locks MUST be in the locked position BEFORE lowering the patient into the wheelchair.

2. Lock the rear wheels of the wheelchair.

3. Position the patient over the wheelchair.

4. Press the DOWN button and lower the patient into the wheelchair.

Invacare recommends locking the rear swivel casters ONLY when positioning or removing the sling (standing or transport) from around the patient.

5. Lock the rear swivel casters. Refer to LOCKING/UNLOCKING THE REAR SWIVEL CASTERS in the OPERATION section of this manual.

6. Unhook the standing or transport sling from all attachment points on the stand up lift.

7. If equipped, unfasten the leg strap from around the patient's legs.

8. Instruct the patient to lift their feet off of the footplate.
NOTE: Assist the patient if necessary.

9. Remove the standing or transport sling from around the patient.

10. Pull the stand up lift away from the wheelchair.

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Transferring the Patient to a Bed

NOTE: The lower center of gravity provides stability making the patient feel more secure and the lift easier to move.

NOTE: The lift arms will stay in position until the DOWN button is pressed.

1. Position the patient as far over the bed as possible.

NOTE: If patient is being transferred from a surface that is lower than the bed, press the UP button to raise the patient above the surface of the bed. The patient should be elevated just high enough to clear the bed with their weight fully supported by the lift.

2. Press the DOWN button and lower the patient onto the bed.

Invacare recommends locking the rear swivel casters ONLY when positioning or removing the sling (standing or transport) from around the patient.

3. Lock the rear swivel casters. Refer to Locking/Unlocking the Rear Swivel Casters in the OPERATION section of this manual.

4. Unhook the standing or transport sling from all attachment points on the stand up lift.

5. If equipped, unfasten the leg strap from around the patient's legs.

6. Instruct the patient to lift their feet off of the footplate. NOTE: Assist the patient if necessary.

7. Remove the standing or transport sling from around the patient.

8. Pull the stand up lift away from the bed.

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Transferring the Patient to a Commode

1. Position the patient over the commode.

2. Press the DOWN button and lower the patient onto the commode.

Invacare recommends locking the rear swivel casters ONLY when positioning or removing the sling (standing or transport) from around the patient.

3. Lock the rear swivel casters. Refer to Locking/Unlocking the Rear Swivel Casters in the OPERATION section of this manual.

4. Perform one (1) of the following:

A. Standing Sling
Unhook the standing sling from the attachment points on the stand up lift.

B. Transport Slings
Unhook the transport sling from the bottom attachment points on the stand up lift.

Lift up on the patient's legs and remove the thigh supports from underneath the patient.

If desired, unhook the transport sling from the top attachment points on the stand up lift.

NOTE: The patient can remain in the upper portion of the transport sling while using the commode.

5. If equipped, unfasten the leg strap from around the patient's legs.

6. Instruct the patient to lift their feet off of the footplate.
NOTE: Assist the patient if necessary.

7. Remove the standing or transport sling from around the patient.

8. Pull the stand up lift away from the commode.

9. Once the patient is ready to be transferred, refer to the LIFTING PREPARATION section of this manual.

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Lifter Maintenance

Safety Inspections

A person who is suitably and properly qualified and well acquainted with the design, use and care of the hoist should perform periodic inspections.

Inspections should be carried out both routinely (at least as often as specified) and, as necessary. All defects and damages that have lead to corrective action should be noted in a log book (see page 26) and signed and dated by the inspector. Defects and resulting actions should be reported in writing to your supplier.

If inspection reveals that the safety of the hoist is jeopardised in any way, the Owner should be notified immediately, the hoist should be taken out of service and not used again until the problem has been rectified. Contact the supplier to arrange servicing.

A Guide to Maintenance Procedures

A regular visual check of the hoist and attachments is essential. Invacare Australia Pty Ltd permits servicing only by an Authorised Service Agent in accordance with the following schedule of Service Types.

Item	Pre-Delivery	Daily	Minor Service (After every 3 Months of Service)	Major Service (After every 6 Months of Service)
PRE-DELIVERY				
Confirm all components are included	X			
Inspect parts for possible damage in transit	X			
COMPLETE LIFTER				
General inspection of Lifter. Visually inspect the patient lifter for external damage or wear. Scratches and chips.	X	X	X	X
Retard rusting by applying spray paint (Dulux 'Special White' Code: 81880)			X	X
BASE AND CASTORS				
Inspect for missing hardware	X		X	X
Base opens/closes with ease.	X		X	X
Inspect castors and axle bolts for tightness. Make sure tightly attached to legs.	X		X	X
Inspect castors for smooth swivel and roll	X		X	X
Check castor brakes operate efficiently	X		X	X
Overhaul castors and repack with grease			X	X
Check tightness of bolt in leg bushes				X
Check linkages are secure in leg adjuster ball joints				X
MAST				
Mast MUST be securely assembled to boom	X		X	X
Inspect for bends or deflections.	X		X	X
Check sling hooks for wear or deflection.	X	X	X	X
ELECTRIC ACTUATOR ASSEMBLY				
Check hand control and cycle to ensure smooth quiet operation. Lift adjustment on all Lifters. Width also for those with electric leg adjustment.	X	X	X	X
Emergency lowering function (electric and mechanical)	X	X	X	X
Check for wear or deterioration. (IF DAMAGED, RETURN TO FACTORY)	X		X	X
Inspect hardware on mast and boom.	X		X	X
Remove dust and dirt from actuator with cloth			X	X

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Item	Pre-Delivery	Daily	Minor Service (After every 3 Months of Service)	Major Service (After every 6 Months of Service)
ELECTRIC ACTUATOR ASSEMBLY				
Repack actuator clevis' with grease. (Top and bottom actuator bolts must not be over tightened – the actuator must be able to pivot on the bolt without resistance. Ensure original side packing washers are replaced after regreasing.)				X
Wipe actuator shaft with oiled rag (DO NOT use lubricants such as WD40 or RP7)				X
BOOM				
Check all hardware and swivel bar supports.	X		X	X
Inspect for bends or deflections	X		X	X
Inspect bolted joints of boom for wear	X		X	X
Inspect to ensure that the boom is centred between the base legs.	X		X	X
SLINGS AND HARDWARE				
CHECK ALL SLING ATTACHMENTS each time it is used to ensure proper connection and patient safety.	X	X	X	X
Inspect sling material for wear	X	X	X	X
Inspect straps for wear.	X	X	X	X
CLEANING				
Whenever necessary. Clean with mild soap and water and remove any adhesive tape marks with eucalyptus oil.		X	X	X
SHIFTER HANDLE (Manual Leg Adjustment Only)				
Operates smoothly.	X		X	X
Locks adjustable base whenever engaged.	X		X	X
ON COMPLETION OF CHECK or SERVICE				
Arrange repair/replacement of any faulty parts	X	X	X	X
Complete and sign log book	X		X	X

Repairs

Faulty components or workmanship covered by warranty will be repaired where appropriate and replaced when necessary. Defects due to mistreatment or neglect will not be covered by warranty but repair can be arranged by Invacare Australia authorised agents at the request of the User.

Spare Parts

Spare parts are available for purchase through one of our Invacare Australia's authorised agents.

A Major Service undertaken by an authorised service agent every 12 months is a minimum requirement.

NOTE: For individual home use, a full inspection is required prior to each new user.
Regular cleaning will reveal loose or worn parts, enhance smooth operation and extend the life expectancy of the lift.
If applicable, an annual load test (maximum load) to 125% of the Safe Working Load is required for CE mark maintenance.

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Troubleshooting

Symptoms	Faults	Solution
Patient Lift feels loose.	Mast/Base joint loose.	Refer to ASSEMBLY section in this manual
	Tie - Rods are loose.	Refer to the Base Adjustment in the CARE AND MAINTENANCE section in this manual.
Casters/Brakes noisy or stiff	Fluff or debris in bearings.	Refer to Casters in the CARE AND MAINTENANCE section in this manual.
Noisy or dry sound from pivots.	Needs lubrication.	Refer to Lubrication in the CARE AND MAINTENANCE section in this manual.
Electric actuator fails to lift when button is pressed.	Hand-control or actuator connector loose.	Check connections.
	Batteries low.	Charge batteries. Refer to CHARGING THE BATTERIES in the OPERATION section of this manual.
	RED emergency stop button pressed IN.	Rotate RED emergency stop button CLOCKWISE until it pops out.
	Battery not connected properly in to control box.	Reconnect the battery to the control box. Refer to CHARGING BATTERIES in the OPERATION section of this manual.
	The connecting terminals are damaged.	Replace the battery pack. Refer to CHARGING BATTERIES in the OPERATION section of this manual.
	Electric actuator in need of service or load is too high.	Refer to Electric Actuator Replacement in the CARE AND MAINTENANCE section of this manual. Contact your Dealer.
Unusual noise from Actuator	Actuator is worn or damaged or spindle is bent.	Refer to ELECTRIC ACTUATOR REPLACEMENT in the CARE AND MAINTENANCE section of this manual Contact your Dealer.
Boom will not lower in uppermost position.	Boom require a minimum weight load to lower from the uppermost position.	Pull down slightly on the lift arms.

NOTE: If problems are not remedied by the suggested means, please contact your Dealer or Invacare.

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Care & Maintenance of your Patient Lifter

NOTE: Follow the maintenance procedures described in this manual to keep your patient lift in continuous service.

The Invacare Patient Lift is designed to provide a maximum of safe, efficient and satisfactory service with minimum care and maintenance.

All parts of the Invacare Lift are made of the best grades of steel, but metal to metal contact will wear after considerable use.

There is no adjustment or maintenance of either the casters or brakes, other than cleaning, lubrication and checking axle and swivel bolts for tightness. Remove all debris, etc. from the wheel and swivel bearings. If any parts are worn, replace these parts immediately.

If you question the safety of any part of the lift, contact your Dealer immediately and advise him/her of your problem.

Lubrication

The Invacare lift is designed for minimum maintenance; however, a six (6) month check and lubrication should ensure continued safety and reliability.

Keep lift and slings clean and in good working order. Any defect should be noted and reported to your dealer as soon as possible.

The casters MUST swivel and roll smoothly. A light grease (waterproof auto lubricant) may be applied to the ball bearing swivel of the casters once a year. Apply more frequently if the casters are exposed to extreme moist conditions.

Wear and Damage

It is important to inspect all stressed parts, such as slings, spreader bar and any pivot for slings for signs of cracking, fraying, deformation or deterioration. Replace any defective parts immediately and ensure that the lift is not used until repairs are made.

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Cleaning

The sling should be washed regularly in water temperature of 140°F (60°C) and a biological solution. A soft cloth, dampened with water and a small amount of mild detergent, is all that is needed to clean the patient lift. The lift can be cleaned with non-abrasive cleaners.

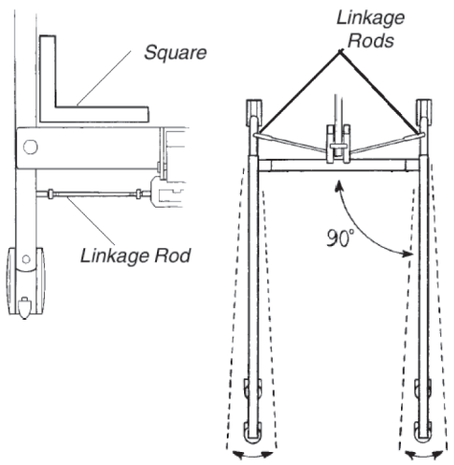
Electric Actuator Replacement

1. Remove the nut, washer and shoulder bolt that secure the electric actuator to the mast mounting bracket.
2. Rest the boom on your shoulder and remove the nut, bolt, plastic bushing and pinch guard from the boom mounting bracket.
3. Remove the electric actuator assembly.
4. Reverse steps for installation.

Base Adjustment

The base adjustment should not require any attention other than:

1. Check the squareness of the legs when in the CLOSED position.
2. Place a square on the inside of the legs and base to determine the 90° alignment.
3. Adjust the linkage rods until 90° alignment is achieved.



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Limited Warranty

PLEASE NOTE: THE WARRANTY BELOW HAS BEEN DRAFTED TO COMPLY WITH FEDERAL LAW APPLICABLE TO PRODUCTS MANUFACTURED AFTER JULY 4, 1975. This warranty is extended only to the original purchaser/user of our products.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

Invacare warrants the products manufactured to be free from defects in materials and workmanship for a period of three (3) years on the lift and one (1) year on the slings, hydraulic pump / electric components from the date of purchase. If within such warranty period any such product shall be proven to be defective, such product shall be repaired or replaced, at Invacare's option. This warranty does not include any labour or shipping charges incurred in replacement part installation or repair of any such product. Invacare's sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

For warranty service, please contact the dealer from whom you purchased your Invacare product. In the event you do not receive satisfactory warranty service, please write directly to Invacare at the address on the back cover, provide dealer's name, address, date of purchase, indicate nature of the defect.

Invacare Corporation will issue a serialized return authorization. The defective unit or parts MUST be returned for warranty inspection using the serial number, when applicable as identification within 30 days of return authorization date. Do not return products to our factory without our prior consent. C.O.D. shipments will be refused; please prepay shipping charges.

LIMITATIONS AND EXCLUSIONS: THE FOREGOING WARRANTY SHALL NOT APPLY TO SERIAL NUMBERED PRODUCTS IF THE SERIAL NUMBER HAS BEEN REMOVED OR DEFACED, PRODUCTS SUBJECTED TO NEGLIGENCE, ACCIDENT, IMPROPER OPERATION, MAINTENANCE OR STORAGE, PRODUCTS MODIFIED WITHOUT INVACARE'S EXPRESS WRITTEN CONSENT (INCLUDING, BUT NOT LIMITED TO, MODIFICATION THROUGH THE USE OF UNAUTHORIZED PARTS OR ATTACHMENTS; PRODUCTS DAMAGED BY REASON OF REPAIRS MADE TO ANY COMPONENT WITHOUT THE SPECIFIC CONSENT OF INVACARE, OR TO A PRODUCT DAMAGED BY CIRCUMSTANCES BEYOND INVACARE'S CONTROL, AND SUCH EVALUATION WILL BE SOLELY DETERMINED BY INVACARE. THE WARRANTY SHALL NOT APPLY TO PROBLEMS ARISING FROM NORMAL WEAR OR FAILURE TO ADHERE TO THE INSTRUCTIONS IN THIS MANUAL.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, IF ANY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE DURATION OF THE EXPRESSED WARRANTY PROVIDED HEREIN AND THE REMEDY FOR VIOLATIONS OF ANY IMPLIED WARRANTY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT PURSUANT TO THE TERMS CONTAINED HEREIN. INVACARE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER.

Some states DO NOT allow exclusion or limitation of incidental or consequential damage, or limitation on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

THIS WARRANTY SHALL BE EXTENDED TO COMPLY WITH STATE OR PROVINCIAL LAWS AND REQUIREMENTS.

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Log Book

Customer Name _____

Customer Address _____

_____

_____

Product Name _____ Serial No _____

Date of Purchase _____ Warranty Period _____

Distributed By

Check List	
Owner: • Ensure the patient lifter is serviced regularly (refer Lifter Maintenance, page 33). • Contact an Authorised Invacare Distributor/ Service Agent immediately if there are any problems with the operation of the patient lifter. • Ensure the Log Book is completed and signed. • Record any repairs required. • Withdraw the patient lifter from service if inspection reveals that user safety is jeopardised in any way from use of the patient lifter. • Ensure ongoing servicing after the Warranty Period is maintained by agreement between you and an Authorised Invacare Distributor/Service Agent.	**Authorised Invacare Distributor/Service Agent:** • Ensure the patient lifter is serviced in accordance with the Manufacturer's recommendations. • Ensure the Log Book is completed and signed. • Record any repairs required. • Advise the Owner to withdraw the patient lifter from service if inspection reveals that user safety is jeopardised in any way from use of the patient lifter. • Ensure ongoing servicing after the Warranty Period is maintained by agreement between you and the Owner.

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TO BE COMPLETED AFTER EACH INSPECTION

Service Type	
☐ Pre-Delivery	☐ Minor
☐ Periodic Inspection	☐ Major

Date

Inspected By

Signature

Condition Report

Action Taken

Service Type	
☐ Pre-Delivery	☐ Minor
☐ Periodic Inspection	☐ Major

Date

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